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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,996	07/28/2003	Hidetsugu Shimura	Q76032	4275
23373 7	590 09/30/2004		EXAM	INER
SUGHRUE MION, PLLC			TRAN, HOAN H	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037		.W.	ART UNIT	PAPER NUMBER
			2852	

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/627,996	SHIMURA, HIDETSUGU			
Office Action Summary	Examiner	Art Unit			
	Hoan H. Tran	2852			
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address			
Period for Reply	VIC OFT TO EVOIDE 2 MONTH/	e) EDOM			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 1-10,13-16 and 18-35 is/are allowed. 6) ☐ Claim(s) 11,12 and 36 is/are rejected. 7) ☐ Claim(s) 17 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
- 9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on <u>28 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	, , , , , , , , , , , , , , , , , , , ,				
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>07/2003</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Application/Control Number: 10/627,996 Page 2

Art Unit: 2852

DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

- 2. Claim 17 is objected to because of the following informalities:
 - Claim 17, line 4, delete "said".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 11, 12 and 36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - Claim 11 recites the limitation "said density detecting means" in line 9. There is insufficient antecedent basis for this limitation in the claim.
 - Claim 36 recites the limitation "said density detecting means" in line 10. There is insufficient antecedent basis for this limitation in the claim.
 - Claim 12 is also rejected for the same reason because of its dependency on claim 11.

Application/Control Number: 10/627,996 Page 3

Art Unit: 2852

Allowable Subject Matter

5. Claims 1-10, 13-16 and 18-35 are allowed.

6. Claims 11, 17 and 36 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph and/or the objection(s), set forth in this Office action.

- 7. Claim 12 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 8. The following is an examiner's statement of reasons for allowance:

None of the prior art of record teaches or suggests an image forming apparatus comprising a low-density patch image formed under a low-density side image forming condition, which makes an image density the lowest among the multiple levels of the image forming condition, having a length which is equal to or longer than a circumferential length of the image carrier in a patch length direction which corresponds to a direction in which the image carrier moves, the density detecting means detects a density in a portion of the low-density patch image which corresponds to the circumferential length of the image carrier, and a toner density of the low-density patch image is calculated.

Prior Art

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - Ino et al. ['162] disclose an image forming apparatus with automatic density

Art Unit: 2852

compensation.

- Ojima et al. ['466] disclose an image density control.

- Uchiyama et al. ['654] disclose an image forming apparatus with development control

based on density detection of developed control image.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoan H. Tran whose telephone number is (571) 272-2141. The

examiner can normally be reached from 8:30 AM - 5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Arthur Grimley can be reached at (571) 272-2136. The central office fax number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

HHT

September 28, 2004

HOANTRAN

PHIMARY EXAMINER